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SOYBEAN PROJECTS

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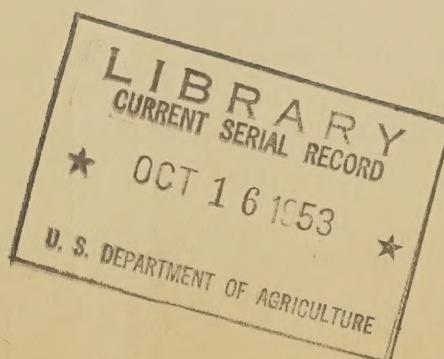
STATE AGRICULTURAL EXPERIMENT STATIONS, 1935-36

Compiled by

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U. S. Department of Agriculture

March 14, 1936.



## EXPLANATORY NOTE

This list of the currently active research projects concerned with soybeans at the several State agricultural experiment stations was compiled in response to action taken at the organization meeting of the Soybean Council, held December 5, 1935, in Chicago, Illinois. The membership of the Soybean Council includes representatives of the experiment stations and the U. S. Department of Agriculture and others interested in the different phases of research with soybeans.

The entries in the list indicate the experiment station, the project title, leadership, station departments involved, cooperation with Bureaus of the Department of Agriculture, and if supported entirely or in part by Federal funds, including those provided for research by the Adams (A), Purnell (P), or Bankhead-Jones (B-J) Acts. Where no fund is shown, support from Hatch or State funds is implied.

SOYBEAN PROJECTS REPORTED TO BE CURRENTLY ACTIVE  
AT THE STATE EXPERIMENT STATIONS

ALABAMA

Soybean variety tests, H. B. Tisdale, Agron. & Soils.

A study of seed production in legumes, Agron. & Soils (B-J).--Includes soybeans.

A study of quality in cowpeas and soybeans for human food, W. D. Salmon, An. Husb. (B-J).

ARIZONA

The culture and improvement of legumes adapted to the Southwest, R. S. Hawkins, R. L. Matlock, Agron.--Includes soybeans.

ARKANSAS

Variety and cultural studies of legumes, C. K. McClelland, Agron.--Includes soybeans.

Role of potassium in crop production, R. P. Bartholomew, Agron. (A and P).  
--Physiological effects on root and top development, histological differences, and nitrogen and carbohydrate assimilation of soybeans and other crops.

Irrigation of tilled crops, M. Nelson, Agron.--Includes soybeans in crop sequences at the Rice Branch Sta.

Grass and weed control, M. Nelson, Agron.--Includes soybeans in rotations with rice.

Effects of soybeans and other legumes on following crops of corn or cotton, M. Nelson, Agron.

Legumes in corn, C. K. McClelland, Agron.--Includes soybeans.

Forage crops for growing and fattening swine, E. Martin, An. Ind.--Includes soybeans.

CALIFORNIA, DAVIS

Legume investigations, L. G. Goar, B. A. Madson, Agron.--Includes soybean variety and planting tests.

## COLORADO

Variety, cultural, and irrigation tests with soybeans, A. Kezer, et al. Agron.

## CONNECTICUT (NEW HAVEN)

Variety tests of edible soybeans, D. F. Jones, Gen.

## DELAWARE

Soybean improvement, G. L. Schuster, Agron.

Forage crops for pigs, A. E. Tomhave, An. Husb. (P).--Includes soybeans.

Diseases of soybeans, J. F. Adams, Pl. Path. (A).

The extraction of phospholipoids from the soybean oil cake (meal), A. A. Horvath, Chem. (B-J).

## FLORIDA

Variety test work with field crops, W. E. Stokes, G. E. Ritchey, Agron. (Coop. B. P. I.).--Includes soybeans.

Crop adaptation studies, W. E. Stokes, G. E. Ritchey, Agron. (Coop. B.P.I.) --Includes soybeans.

Cover crop investigations, A. Daane, Everglades Br. Sta.--Includes soybeans.

Forage crop investigations, J. D. Warner, North Florida Br. Sta.--Includes soybeans.

Forage crop investigations, A. Daane, Everglades Br. Sta.--Variety and cultural tests including soybeans.

## GEORGIA

Variety tests with soybeans and cowpeas, R. P. Bledsoe, S. J. Hadden, Agron.

Breeding improved varieties of soybeans, R. P. Bledsoe, S. J. Hadden, Agron.

A study of the value of systematic crop rotation on a typical soil type of the Piedmont region of Georgia, R. P. Bledsoe, G. A. Hale, Agron.--Includes soybeans.

The sweetpotato as a fat-hardening feed for swine, F. R. Edwards, et al., An. Husb. (A).--Effects of feeding sweetpotatoes in conjunction with softening feeds, as soybeans.

## GEORGIA COASTAL PLAIN

Soybean variety tests for seed and hay, W. J. Morse, J. L. Stephens, Agron. (Coop. B. P. I.).

### GEORGIA COASTAL PLAIN (Contd.)

Summer legume tests, nursery, R. McGee, J. L. Stephens, Agron. (Coop. B. P. I.).--Includes soybeans.

Swine production on grazing crops at Tifton, B. L. Southwell, (Coop. B. A. I.).--Includes soybeans.

### GEORGIA AGRICULTURAL COLLEGE

Breeding for better varieties of forage crops and corn, Agron.--Includes soybeans.

Adaptation of soybean varieties to different grades of soil, Agron.

Cultural tests of forage crops and corn, Agron.--Includes soybeans.

Successful crop associations, Agron.--Includes soybeans.

Studies of edible soybeans, Agron., Home Ec.

### HAWAII

A study of certain factors affecting the germination and viability of crop seeds in Hawaii, C. P. Wilsie, W. B. Storey, Agron. (A).--Includes soybeans.

Forage crops adaptability, breeding, and yield studies, C. P. Wilsie, Agron.--Includes soybeans.

### IDAHO

No soybean projects listed as currently active.

### ILLINOIS

Improvement of the soybean, C. M. Woodworth, Agron.

Performance of varieties of soybeans, W. L. Burlison, J. C. Hackleman, C. A. Van Doren, Agron.--Includes variety, longevity, and planting tests.

Investigation of the soybean in its relation to crop succession, O. H. Sears, Agron.

Rotations for livestock farms in central Illinois, H. P. Rusk, W. P. Burlison, An. Husb., Agron.--Includes soybeans.

Fertility value of legumes, F. C. Bauer, E. E. De Turk, E. B. Earley, Agron.--Includes soybeans.

Factors affecting the inoculation of legumes, O. H. Sears, Agron.--Includes soybeans.

ILLINOIS (Contd.)

Insects attacking cowpeas and soybeans, J. H. Bigger, S. C. Chandler, W. P. Flint, Agron., Ent.

Studies of the Mexican bean beetle, S. C. Chandler, Ent., Hort.--As a pest to soybeans, etc.

Methods and costs of growing and harvesting soybeans, R. C. Ross, Agr. Ec.

Harvesting studies<sup>and</sup>/investigations.--Studies of methods and machines for harvesting soybeans and other crops, E. W. Lehmann, R. I. Shawl, Agr. Engr.

Methods of harvesting small grain and seed crops, R. C. Ross, Farm Organ. & Mgt. (P).--Includes soybeans.

Shrinkage, storage, and artificial drying of soft corn, seed corn, small grains, soybeans, and hay crops, W. L. Burlison, E. W. Lehmann, et al., Agron., Agr. Engr.

Palatability of soybean oil meals, H. P. Rusk, R. R. Snapp, An. Husb.

Corn silage vs. soybean hay as a roughage for fattening Western calves, H. P. Rusk, R. R. Snapp, An. Husb.

Use of soybean oil meal, soybean hay, and soybean straw for dairy cattle, W. B. Nevens, Dairy Husb.

The relation of soybean hay and ground soybeans to flavor and composition of milk and butter, W. B. Nevens, P. H. Tracy, Dairy Husb.

Factors influencing firmness of pork, S. Bull (P).--Influence of alfalfa pasture, soybean oil meal, and type on the firmness of pork.

Rations for brood sows, W. E. Carroll, W. P. Garrigus, An. Husb.--Includes soybeans.

Soybean oil meal for growing chickens, H. J. Sloan, L. E. Card, An. Husb.

Soybeans and soybean products as human food, S. Woodruff, H. Klass, Home Ec. (P).

The use of soybean products as human food, S. Woodruff, Home Ec.

Soybean marketing investigations, C. L. Stewart, Agron., Agr. Econ.

Research and industrial agriculture, W. L. Burlison, et al, Agron.--Deals with soybean oil for paint purposes.

INDIANA

Improvement of wheat and soybeans by breeding and selection, G. H. Cutler, R. R. Mulvey, Agron. (P).

INDIANA (Contd.)

Variety tests of farm crops, R. R. Mulvey, G. P. Walker, Agron.--Soybeans and other crops.

Influence of different crops on the growth of other crops that follow, R. R. Mulvey, Agron.--Includes soybeans.

Crop rotation studies, R. R. Mulvey, G. P. Walker, Agron.--Includes soybeans.

Effect of soil treatment on the quality of soybeans, R. R. Mulvey, Agron.

Inoculation studies, R. R. Mulvey, Agron.--Includes soybeans.

Adaptation and use of edible soybeans, G. H. Cutler, Agron.

A study of the nutritive value and mineral deficiency of soybeans and soybean products, C. M. Vestal, C. L. Shrewsbury, E. B. Johnson, An. Husb., Agr. Chem., (P).

The effect of soybeans and soybean products on the quality of pork, C. M. Vestal, C. L. Shrewsbury, An. Husb., Agr. Chem.

Fattening cattle, F. G. King, An. Husb.--Includes soybeans.

A study of the vitamin A content of butter from cows under different methods of feeding, J. H. Hilton, J. W. Wilbur, S. M. Hauge, Dairy Husb., Res. Chem.--Includes soybeans.

Fat tests of milk as affected by feeds, J. W. Wilbur, J. H. Hilton, Dairy Husb.--Includes soybeans.

The relative value of various roughages and combinations of different roughages and concentrates for growing dairy cattle, J. H. Hilton, J. W. Wilbur, Dairy.--Includes soybeans.

The value of legume hay when fed with ground shelled corn as compared with ground shelled corn, ground oats, plus protein supplement in dairy rations, J. H. Hilton, J. W. Wilbur, W. F. Epple, Dairy Husb.--Includes soybean hay.

Use of a 32 percent protein supplement for laying pullets, C. W. Carrick, Poul. Husb.--Includes soybeans.

Broiler production, R. E. Roberts, C. W. Carrick, Poul. Husb.--Includes soybeans.

Studies on soybean oil, H. R. Kraybill, M. H. Thornton, G. E. Halliday, Agr. Chem.

Studies on the chemical composition of different varieties of soybeans, H. R. Kraybill, G. E. Halliday, Agr. Chem.

INDIANA (Contd.)

Separation and study of the phosphatides and related compounds from soybean oil, H. R. Kraybill, M. H. Thornton, Agr. Chem.

IOWA

The production of new varieties of soybeans by selection and hybridization, J. B. Wentz, Farm Crops & Soils.

Soybean variety and selection tests, F. S. Wilkins, C. B. Juday, Farm Crops & Soils, (Coop. B. P. I.).

Seed increase of new or improved varieties of field crops, L. C. Burnett, F. S. Wilkins, J. L. Robinson, Farm Crops & Soils.--Includes soybeans.

The adaptation of certain varieties of soybeans to the soil and climatic conditions in different parts of Iowa, J. L. Robinson, Farm Crops & Soils.

Study of legumes and grass species in pure and mixed seedings for hay and pasture, H. D. Hughes, F. S. Wilkins, C. Y. Cannon, Farm Crops & Soils, An. Husb.

Investigations of impermeability, longevity, dormancy, viability, and germination of seeds, R. H. Porter, E. O. Brown, A. L. Bakke, Bot. & Pl. Path.--Includes soybeans.

The value of commercial cultures for the inoculation of legumes and non-legumes, R. H. Walker, Farm Crops & Soils.

The effect of fertilizer on crops and soil conditions under various rotations in the Wisconsin drift soil area, P. E. Brown, J. L. Boatman, L. W. Forman, Farm Crops & Soils.--Includes soybeans.

The plant food content and lime requirements of Iowa soils and the composition of various crops, P. E. Brown, A. J. Engelhorn, Farm Crops & Soils.--Includes soybeans.

The influence of feed, especially soybeans and soybean products, upon the character and quality of fat and lard from swine, C. C. Culbertson, et al, An. Husb., Chem.

Comparison of roughages and the relation of roughage to grain in the dairy cow ration, C. Y. Cannon, et al, An. Husb.--Includes soybeans.

Testing soybean selections suitable for human consumption, F. S. Wilkins, P. M. Nelson, E. S. Haber, Farm Crops & Soils, Foods & Nutr., Veg. Crops.

KANSAS

Soybeans, sweet clover, and miscellaneous legume production, J. W. Zahnley, Agron.

KANSAS (Contd.)

Soybean variety and cultural tests on the southeastern, southcentral, and northeastern Kansas experiment fields, R. I. Throckmorton, J. W. Zahnley, Agron.

Cooperative experiments with farmers, A. L. Clapp, F. L. Timmons, Agron.--Includes soybeans.

KENTUCKY

Study of the effectiveness of different legumes in the maintenance of productiveness, Western Kentucky Substa., G. Roberts, J. F. Freeman, Agron.--Includes soybeans.

Laboratory studies on the differences in wheat yields in the crop rotation experiments after corn, soybeans, and tobacco, P. E. Karraker, Agron.

Early-cut soybean hay vs. late-cut soybean hay in the wintering of grade beef calves, E. S. Good, W. J. Harris, An. Ind.

LOUISIANA

Inheritance and correlation study of certain characters of soybean plants, J. P. Gray, Agron. (P))

Soybean improvement for Louisiana conditions - including hybridization and introductions, J. P. Gray, Agron.

Soybean varieties in Louisiana for forage, seed, and green vegetables, J. P. Gray, Agron.

Outfield experiments--variety tests with soybeans and other crops, H. C. Lovett, Agron.

Soybean inoculation test, J. P. Gray, Agron.

Corn spacing with soybeans planted in the row, H. B. Brown, Agron.

Grain sorghums and soybeans in the same row for south Louisiana, J. P. Gray, Agron.

Comparative effect on soil fertility of a crop of corn, a crop of soybeans turned under, and a crop of soybeans cut for hay, H. B. Brown, Agron.

Two-year rotation: Cotton, corn, soybean rotation experiment, F. L. Davis, Agron.

Soybeans and Sudan grass, J. P. Gray, Agron.

Grazing soybeans in Louisiana, as to effect on soybean growth, J. P. Gray, Agron.

LOUISIANA (Contd.)

Grazing crops for beef cattle in a rice rotation, C. I. Bray, An. Ind., Agron. (P).--Includes soybeans.

A comparison of silage and hay feeding, R. H. Lush, Dairy Husb.--Includes soybean hay.

A study of hay driers, H. T. Barr, Agr. Engr.--Includes soybean hay.

MAINE

No soybean projects listed as currently active.

MARYLAND

Variety tests of soybeans for hay and seed, Agron.--At College Park.

Variety tests of corn, wheat, and soybeans, Agron.--At Ridgely Farm.

Feeding experiments with hogs, B. E. Carmichael, An. & Dairy Husb.--Includes soybeans.

MASSACHUSETTS

Variety tests with soybeans, Agron.

MICHIGAN

Variety tests with soybeans, C. R. Megee, Farm Crops.

MINNESOTA

Varietal improvement in field peas, soybeans, and field beans, A. C. Arny, et al, Agron. & Pl. Gen.

Cooperative seed production and distribution, C. Borgeson, Agron. & Pl. Gen.--Includes soybeans.

Demonstration trials with new crop varieties, R. F. Crim, H. K. Hayes, Agron. & Pl. Gen.--Includes soybeans.

Combine harvesting of grain and seed crops, A. J. Schwantes, Agr. Engr.

The palatability and protein supplemental values of soybean oil meals produced by different processes, E. F. Ferrin, An. Husb.

MISSISSIPPI

Testing of soybean varieties, W. R. Perkins, Agron.

Influence of stage of cutting soybeans on composition, W. R. Perkins, Agron.

# MISSISSIPPI (Contd.)

Spacing of soybeans for hay and seed production, W. R. Perkins, Agron.

Study of factors determining efficient drying of hay, T. N. Jones, J. C. McGee, Agr. Engr. (P).--Includes soybeans.

The capacity of legumes to stored nitrogen symbiotically, W. B. Andrews, C. Dorman, Agron. (P).--Includes soybeans.

The influence of variations in the manufacturing processes and in feeding rations on the fat constants, texture, and standing-up properties of Southern butter, F. H. Herzer, J. S. Moore, Dairy. (P).--Includes soybeans.

The advantages of certain Southern forage crops in pork production, H. H. Leveck, An. Husb. (Coop. B. A. I.), (P).

Utilization of soybean oil meal in pork production, H. H. Leveck, An. Husb.

Study of edible soybeans, W. R. Perkins, D. E. Dickins, Agron., Home Ec.

Soybean oil studies, J. F. O'Kelly, M. Gieger, Agron. (A).

## MISSOURI

Breeding the soybean plant for increased production and commercial use, W. C. Etheridge, B. M. King, Field Crops.

## MONTANA

Variety tests with soybeans, Agron.

## NEBRASKA

Variety and cultural comparisons with annual and biennial forage and miscellaneous crops, W. E. Lyness, T. A. Kiesselbach, Agron.--Includes soybeans.

Effect of certain feeds upon the quality and palatability of pork, H. J. Gramlich, W. F. Loeffel, M. Peters, An. Husb., Home Ec. (P).--Includes soybeans.

## NEVADA

No soybean projects listed as currently active.

## NORTH CAROLINA

Soybean breeding for increased yield and other desirable qualities, P. H. Kime, Agron.

NORTH CAROLINA (Contd.)

A study of strains and varieties of soybeans for hay and seed production, P. H. Kime, Agron.

Soybean variety experiment, R. E. Stitt, P. H. Kime, Agron. (Coop. B. P. I.), Piedmont Br. Sta.

Intercropping corn and soybeans, P. H. Kime, Agron., Mountain Br. Sta.

Intercropping corn and soybeans, P. H. Kime, Agron., Coastal Plain Br. Sta.

Peat soil studies - study of methods of culture in relation to crop stand and yield on peat soil, C. B. Williams, W. H. Rankin, Blackland Br. Sta.--Includes soybeans.

Phosphate studies - rock phosphate, superphosphate and basic slag compared as source of phosphoric acid for corn, wheat and soybeans in rotation, C. B. Williams, W. H. Rankin, Agron., Mountain Br. Sta.

Phosphate studies - rock phosphate, superphosphate and duplex basic slag compared as sources of phosphoric acid for corn, oats, Irish potatoes and soybeans in a three-year rotation, C. B. Williams, W. H. Rankin, Blackland Br. Sta.

Fertilizer requirements of crops in rotation - fertilizer requirements for corn, wheat and soybeans when grown in a two-year rotation on Toxaway loam, C. B. Williams, W. H. Rankin, Agron., Mountain Br. Sta.

Fertilizer requirements of crops in rotation - fertilizer and lime requirements for corn and soybeans grown in a two-year rotation, C. B. Williams, Upper Coastal Plain Br. Sta.

Fertilizer requirements of crops in rotation - fertilizer and lime requirements for crops in a three-year rotation of corn, oats-and-vetch, soybeans (turned), rye (turned), soybeans (seed), rye (turned), C. B. Williams, W. H. Rankin, Agron., Coastal Plain Br. Sta.

Fertilizer requirements of crops in rotation - fertilizer and lime requirements for corn and soybeans grown in rotation, C. B. Williams, W. H. Rankin, Agron., Blackland Br. Sta.

Fertilizer requirements of crops according to soil type - fertilizer and lime requirements for crops in a three-year rotation on Dunbar fine sandy loam (corn, oats-and-vetch, soybeans), C. B. Williams, W. H. Rankin, Coastal Plain Br. Sta.

Effect of rotation upon succeeding crops when normal amounts of fertilizer are used - two methods of crop utilization as offered by different soil treatments, C. B. Williams, W. H. Rankin, Agron., Mountain Br. Sta.--Includes soybeans.

NORTH CAROLINA (Contd.)

Crop rotation studies in which a large number of different crop combinations are run in some of which soybeans are used, C. B. Williams, Agron., Upper Coastal Plain Br. Sta.

A study of the utilization of crops grown in rotation with cotton by two different methods, E. Hostetler, Agron., An. Ind., (P), Upper Coastal Plain Br. Sta.--Includes soybeans.

A study of the effects of amounts of soybeans in the ration upon growth and quality of meat in swine, E. H. Hostetler, et al., An. Husb., (P), (Coop. B. A. I.).

Soybean versus peanut hay for dairy cattle, C. D. Grinnells, Dairy.

A study of dairy cattle as a supplementary enterprise to cotton farming in the Piedmont section of North Carolina, C. D. Grinnells, et al, An. Ind. (P).--Includes soybeans.

The relation of farm practice, equipment, and other factors to the cost of producing farm products in North Carolina, G. W. Forster, R. E. L. Greene, C. Gilbert, Agr. Econ. (P). --Includes soybeans.

NEW HAMPSHIRE

Variety and miscellaneous tests, F. S. Prince, P. T. Blood, Agron.--Includes soybeans.

NEW JERSEY

Forage crop investigations, H. B. Sprague, et al, Agron.--Includes soybeans for hay.

Cereal crop investigations, H. B. Sprague, et al, Agron.--Includes soybeans for seed.

Influence of potash on the weight of grains and forage crops (wheat, rye, soybeans, clovers, and grasses), and also on the amount of so-called available potash in the soil, A. W. Blair, A. L. Prince, S. H. Winterberg, Soil Chem. (P).

NEW MEXICO

Legumes--the adaptability and yield of different soybean and cowpea varieties and miscellaneous legumes, G. Staten, J. C. Overpeck, Agron.

NEW YORK CORNELL

Soybean breeding, R. C. Wiggans, Pl. Breed.--Also includes variety, cultural, and edibility tests.

Preservation of forage crops, J. K. Wilson, Agron.--Includes soybeans.

NEW YORK CORNELL (Contd.)

Use of whole ground soybeans in poultry rations, G. F. Heuser, Poul. Husb.

The relative vitamin G content of feed stuffs used in poultry rations, H. S. Wilgus, Poul. Husb.--Includes soybean meal.

Effect of heat treatment on the nutrition value of soybean meal, H. S. Wilgus, G. F. Heuser, L. C. Norris, Poul. Husb.

NORTH DAKOTA

Variety tests of soybeans, T. E. Stoa, Agron.

OHIO

Soybean investigations, varieties, and breeding, J. B. Park, Agron.

Miscellaneous hay and forage crops, L. E. Thatcher, Agron.--Includes soybeans.

Sowing legumes in corn, C. J. Willard, Agron.--Includes soybeans.

Various fertilizer formulae and methods of application to soybeans, E. E. Barnes, L. E. Thatcher, Agron.

The effect of various fertilizer materials on the yields of crops and various rotations, R. M. Salter, Agron.--Includes soybeans.

The effect of soil reaction upon various legumes and cereals, E. E. Barnes, Agron.--Includes soybeans.

Method of cultivation and other cultural practices, L. E. Thatcher, Agron, --Includes soybeans.

Date of harvesting different soybean varieties of seed and hay, J. B. Park, Agron.

Comparison of crop rotations, R. M. Salter, L. E. Thatcher, Agron.--Includes soybeans.

Crop residue studies, R. M. Salter, Agron.--Includes soybeans.

Soybeans as a green manure crop for orchards, J. H. Gourley, Hort.

Soybeans and soybean oil meal for feeding shotes, W. L. Robison, An.  
Ind.

Soybean seed, meal and hay in rations for beef cattle, P. Gerlaugh, An.  
Ind.

Soybean seed, meal and hay in rations for sheep, D. S. Bell, An. Ind.

OHIO (Contd.)

Soybean leaf meal and chopped hay vs. alfalfa meal and chopped hay for chickens, D. C. Kennard, Poul.

OKLAHOMA

Forage crops investigations: A study of variability in grasses and legumes, W. B. Gernert, Agron.--Includes variety, selection, and edibility tests with soybeans.

Interrelation of the yield to the oil and protein content of soybeans, J. E. Webster, W. B. Gernert, Agr. Chem., Agron.

OREGON

Variety tests of soybeans, H. A. Schoth, Agron. (Coop. B. P. I.).

PENNSYLVANIA

Varieties of soybeans, C. F. Noll, C. J. Irvin, H. B. Musser, Agron.--Includes selection and curing studies.

Potato rotation experiment, C. F. Noll, C. J. Irvin, Agron.--Includes soybeans.

RHODE ISLAND

Variety test with soybeans, T. E. Odland, G. F. Lee.

SOUTH CAROLINA

Soybean variety tests, H. P. Cooper, B. E. G. Prichard, Agron.

Soybean varieties and selections, W. A. Carus, Sandhill Br. Sta. (Coop. B. P. I.).

Soil fertility studies, J. E. Adams, Sandhill Br. Sta. (Coop. B. P. I.). --Includes green manure and fertilizer experiments with soybeans.

A study of the effect of certain physical and biological factors on soil erosion, T. C. Peele, H. P. Cooper, Agron., (Coop. Soil Conserv. Serv.), (P).--The different cropping systems used include soybeans.

Investigation of the effect of various sources of nitrogen on the chemical and biological changes in the soil and the influence of these materials and changes on the composition and yield of crops, W. R. Paden, Agron., (P).--Includes soybeans.

Study of relationship between the content of certain mineral elements of farm-grown roughages and the mineral content of the soil, J. H. Mitchell, Chem., Agron., Dairy. (P).--Includes soybeans.

SOUTH CAROLINA (Contd.)

A study of the influence of green summer forage crops when fed with corn and fish meal, free choice, on the hardness of fat in hogs, E. G. Godbey, An. Husb., (P), (Coop. B. A. I.).--Includes soybeans.

The influence of locally grown feeds on the nitrogen, calcium, and phosphorus balance in milking cows, J. P. Lamaster, E. C. Elting, J. H. Mitchell, Dairy, Chem., (P).--Includes soybean hay.

Vegetable protein in laying and breeding rations, C. L. Morgan, J. H. Mitchell, Poul., (P).--Includes soybean oil meal.

SOUTH DAKOTA

Variety and cultural experiments with soybeans, A. N. Hume, et al, Agron.

How soybeans can be fed with corn to avoid soft pork, J. W. Wilson, F. U. Fenn, An. Husb. (P).

TENNESSEE

Variety and cooking tests with soybeans, Agron.

TEXAS

Variety tests of legumes, E. B. Reynolds, Agron.--Includes soybeans.

UTAH

Miscellaneous tests at Greenville Farm, D. W. Pittman, Agron.--Includes soybeans.

VERMONT

No soybean projects listed as currently active.

VIRGINIA

Forage investigations, including varieties, culture, and fertilizers for soybeans, cowpeas, millet, clover, and vetch, M. S. Kipps, Agron.

Variety tests with soybeans, County Expt. Stations, Agron.

Cultural tests with alfalfa, sweet clover, cowpeas, and soybeans as hay crops, H. C. Marshall, County Expt. Stations.

The lime requirements of alfalfa, soybeans, clover, and other crops in this region (Williamsburg), R. P. Cocke, County Expt. Stations.

Harvesting soybeans; development of methods and equipment, J. W. Sjogren, Agr. Engr.

WASHINGTON

Varietal investigations of cereals, corn, and large seed legumes, H. P. Singleton, Irrigation Br. Sta.--Includes soybeans.

WEST VIRGINIA

Variety testing of corn, wheat, oats, and soybeans, R. J. Garber, J. A. Rigney, Agron. & Gen.

Cover crop experiments: Effects of various cover crops on yields of corn and soybeans on a two-year rotation, G. G. Pohlman, H. O. Henderson, Agron. & Gen.

Crop rotation experiments, T. C. McIlvaine, R. J. Garber, Agron. & Gen.--Includes soybeans.

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WISCONSIN

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WYOMING

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